



EMSL Analytical, Inc.

307 West 38th Street New York, NY 10018
 Tel/Fax: (212) 290-0051 / (212) 290-0058
<http://www.EMSL.com / manhattanlab@emsl.com>

EMSL Order: 031606664

Customer ID: RFWE52

Customer PO: 0090847

Project ID:

Attention: Weston Solutions (Campus Drive)
 205 Campus Drive
 Edison, NJ 08837-3939

Phone: (732) 417-5839

Fax: () -

Received Date: 3/11/2016 4:15 PM

Analysis Date: 3/12/2016

Collected Date: 3/10/2016

Project: RFP# 363

Test Report: Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non-Asbestos			Asbestos
			Fibrous	Non-Fibrous		
Sample ID P0001-BULK15-01-Skim Coat 031606664-0001		Description				
		Homogeneity	Homogeneous			
PLM NYS 198.1 Friable	3/12/2016	White		55.00% Ca Carbonate 33.51% Non-fibrous (other) 10.00% Quartz		1.49% Chrysotile
PLM NYS 198.6 VCM						Not Analyzed
PLM NYS 198.6 NOB						Not Analyzed
TEM NYS 198.4 NOB						Not Analyzed
Sample ID P0001-BULK15-01-Rough Coa 031606664-0001A		Description				
		Homogeneity	Homogeneous			
PLM NYS 198.1 Friable	3/12/2016	Brown		45.00% Non-fibrous (other) 55.00% Quartz		None Detected
PLM NYS 198.6 VCM						Not Analyzed
PLM NYS 198.6 NOB						Not Analyzed
TEM NYS 198.4 NOB						Not Analyzed
Sample ID P0001-BULK16-01-Skim Coat 031606664-0002		Description				
		Homogeneity	Homogeneous			
PLM NYS 198.1 Friable	3/12/2016	White		65.00% Ca Carbonate 25.47% Non-fibrous (other) 8.00% Quartz		1.53% Chrysotile
PLM NYS 198.6 VCM						Not Analyzed
PLM NYS 198.6 NOB						Not Analyzed
TEM NYS 198.4 NOB						Not Analyzed
Sample ID P0001-BULK16-01-Rough Coa 031606664-0002A		Description				
		Homogeneity	Homogeneous			
PLM NYS 198.1 Friable	3/12/2016	Gray	2.00% Cellulose	50.00% Non-fibrous (other) 48.00% Quartz		None Detected
PLM NYS 198.6 VCM						Not Analyzed
PLM NYS 198.6 NOB						Not Analyzed
TEM NYS 198.4 NOB						Not Analyzed
Sample ID P0001-BULK17-01-Skim Coat 031606664-0003		Description				
		Homogeneity	Homogeneous			
PLM NYS 198.1 Friable	3/12/2016	White		98.50% Non-fibrous (other)		1.50% Chrysotile
Inseparable paint / coating layer included in analysis						
PLM NYS 198.6 VCM						Not Analyzed
PLM NYS 198.6 NOB						Not Analyzed
TEM NYS 198.4 NOB						Not Analyzed

Initial Report From: 03/13/2016 03:05:32



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		Non-Asbestos			
Test	Analyzed Date	Color	Fibrous	Non-Fibrous	Asbestos
Sample ID	P0001-BULK17-01-Rough Coa 031606664-0003A	Description	Homogeneous		
		Homogeneity			
PLM NYS 198.1 Friable	3/12/2016	Brown		25.00% Ca Carbonate 8.00% Non-fibrous (other) 67.00% Quartz	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID	P0001-BULK18-01 031606664-0004	Description	Heterogeneous		
		Homogeneity			
PLM NYS 198.1 Friable	3/12/2016	White		55.00% Ca Carbonate 35.81% Non-fibrous (other) 8.00% Quartz	1.19% Chrysotile
Inseparable paint / coating layer included in analysis					
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID	P0001-BULK19-01-Skim Coat 031606664-0005	Description	Heterogeneous		
		Homogeneity			
PLM NYS 198.1 Friable	3/12/2016	White		45.00% Ca Carbonate 3.00% Mica 50.57% Non-fibrous (other)	1.43% Chrysotile
Inseparable paint / coating layer included in analysis					
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID	P0001-BULK19-01-Rough Coa 031606664-0005A	Description	Homogeneous		
		Homogeneity			
PLM NYS 198.1 Friable	3/12/2016	Gray	3.00% Cellulose	62.00% Non-fibrous (other) 35.00% Quartz	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID	P0001-BULK20-01-Skim Coat 031606664-0006	Description	Homogeneous		
		Homogeneity			
PLM NYS 198.1 Friable	3/12/2016	White		50.00% Ca Carbonate 35.25% Non-fibrous (other) 13.00% Quartz	1.75% Chrysotile
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed



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Test Report:Asbestos Analysis of Bulk Material

Test		Analyzed Date	Color	Non-Asbestos			Asbestos
Sample ID	P0001-BULK20-01-Grey Rougl 031606664-0006A		Description	Fibrous	Non-Fibrous		
			Homogeneity				
PLM NYS 198.1 Friable	3/12/2016	Brown/Gray			30.00% Ca Carbonate 17.00% Non-fibrous (other) 53.00% Quartz		None Detected
PLM NYS 198.6 VCM							Not Analyzed
PLM NYS 198.6 NOB							Not Analyzed
TEM NYS 198.4 NOB							Not Analyzed
Sample ID	P0001-BULK20-01-Black Roug 031606664-0006B		Description	Fibrous	Non-Fibrous		
			Homogeneity				
PLM NYS 198.1 Friable	3/12/2016	Black			20.00% Ca Carbonate 77.00% Non-fibrous (other) 3.00% Quartz		None Detected
PLM NYS 198.6 VCM							Not Analyzed
PLM NYS 198.6 NOB							Not Analyzed
TEM NYS 198.4 NOB							Not Analyzed
Sample ID	P0001-BULK21-01 031606664-0007		Description	Fibrous	Non-Fibrous		
			Homogeneity				
PLM NYS 198.1 Friable	3/12/2016	Tan/White/Black		15.00% Cellulose	30.00% Ca Carbonate 48.80% Non-fibrous (other) 5.00% Quartz		1.20% Chrysotile
Inseparable paint / coating layer included in analysis							
PLM NYS 198.6 VCM							Not Analyzed
PLM NYS 198.6 NOB							Not Analyzed
TEM NYS 198.4 NOB							Not Analyzed
Sample ID	P0001-BULK22-01-Skim Coat 031606664-0008		Description	Fibrous	Non-Fibrous		
			Homogeneity				
PLM NYS 198.1 Friable	3/12/2016	White			55.00% Ca Carbonate 33.39% Non-fibrous (other) 10.00% Quartz		1.61% Chrysotile
PLM NYS 198.6 VCM							Not Analyzed
PLM NYS 198.6 NOB							Not Analyzed
TEM NYS 198.4 NOB							Not Analyzed
Sample ID	P0001-BULK22-01-Rough Coa 031606664-0008A		Description	Fibrous	Non-Fibrous		
			Homogeneity				
PLM NYS 198.1 Friable	3/12/2016	Gray/Tan		2.00% Cellulose	58.00% Non-fibrous (other) 40.00% Quartz		None Detected
PLM NYS 198.6 VCM							Not Analyzed
PLM NYS 198.6 NOB							Not Analyzed
TEM NYS 198.4 NOB							Not Analyzed



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Test Report:Asbestos Analysis of Bulk Material

Test		Analyzed Date	Color	Fibrous	Non-Asbestos		Non-Fibrous	Asbestos
Sample ID	P0001-BULK23-01-Skim Coat 031606664-0009		Description Homogeneity	Homogeneous				
PLM NYS 198.1 Friable	3/12/2016	White			60.00% Ca Carbonate 26.52% Non-fibrous (other) 11.00% Quartz		2.48% Chrysotile	
PLM NYS 198.6 VCM								Not Analyzed
PLM NYS 198.6 NOB								Not Analyzed
TEM NYS 198.4 NOB								Not Analyzed
Sample ID	P0001-BULK23-01-Rough Coa 031606664-0009A		Description Homogeneity	Homogeneous				
PLM NYS 198.1 Friable	3/13/2016	Brown/Gray			20.00% Ca Carbonate 18.00% Non-fibrous (other) 62.00% Quartz		None Detected	
PLM NYS 198.6 VCM								Not Analyzed
PLM NYS 198.6 NOB								Not Analyzed
TEM NYS 198.4 NOB								Not Analyzed
Sample ID	P0001-BULK24-01-Skim Coat 031606664-0010		Description Homogeneity	Homogeneous				
PLM NYS 198.1 Friable	3/12/2016	White			60.00% Ca Carbonate 31.82% Non-fibrous (other) 7.00% Quartz		1.18% Chrysotile	
Inseparable paint / coating layer included in analysis								
PLM NYS 198.6 VCM								Not Analyzed
PLM NYS 198.6 NOB								Not Analyzed
TEM NYS 198.4 NOB								Not Analyzed
Sample ID	P0001-BULK24-01-Rough Coa 031606664-0010A		Description Homogeneity	Homogeneous				
PLM NYS 198.1 Friable	3/12/2016	Brown/Gray			45.00% Non-fibrous (other) 55.00% Quartz		None Detected	
PLM NYS 198.6 VCM								Not Analyzed
PLM NYS 198.6 NOB								Not Analyzed
TEM NYS 198.4 NOB								Not Analyzed
Sample ID	P0001-BULK25-01-Skim Coat 031606664-0011		Description Homogeneity	Heterogeneous				
PLM NYS 198.1 Friable	3/12/2016	White			55.00% Ca Carbonate 38.52% Non-fibrous (other) 5.00% Quartz		1.48% Chrysotile	
Inseparable paint / coating layer included in analysis								
PLM NYS 198.6 VCM								Not Analyzed
PLM NYS 198.6 NOB								Not Analyzed
TEM NYS 198.4 NOB								Not Analyzed

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Test Report:Asbestos Analysis of Bulk Material

Test		Analyzed Date	Color	Non-Asbestos			Asbestos
Sample ID	P0001-BULK25-01-Rough Coa 031606664-0011A		Description	Homogeneity			
			Homogeneity				
PLM NYS 198.1 Friable	3/12/2016		Brown		44.00% Non-fibrous (other)	56.00% Quartz	None Detected
PLM NYS 198.6 VCM							Not Analyzed
PLM NYS 198.6 NOB							Not Analyzed
TEM NYS 198.4 NOB							Not Analyzed
Sample ID	P0001-BULK26-01-Skim Coat 031606664-0012		Description	Homogeneity			
			Homogeneity				
PLM NYS 198.1 Friable	3/13/2016		White		48.00% Ca Carbonate	40.25% Non-fibrous (other)	1.75% Chrysotile
					10.00% Quartz		
PLM NYS 198.6 VCM							Not Analyzed
PLM NYS 198.6 NOB							Not Analyzed
TEM NYS 198.4 NOB							Not Analyzed
Sample ID	P0001-BULK26-01-Rough Coa 031606664-0012A		Description	Homogeneity			
			Homogeneity				
PLM NYS 198.1 Friable	3/13/2016		Brown		27.00% Ca Carbonate	13.00% Non-fibrous (other)	None Detected
					60.00% Quartz		
PLM NYS 198.6 VCM							Not Analyzed
PLM NYS 198.6 NOB							Not Analyzed
TEM NYS 198.4 NOB							Not Analyzed
Sample ID	P0001-BULK27-01-Skim Coat 031606664-0013		Description	Homogeneity			
			Homogeneity				
PLM NYS 198.1 Friable	3/12/2016		White		50.00% Ca Carbonate	38.82% Non-fibrous (other)	1.18% Chrysotile
					10.00% Quartz		
Inseparable paint / coating layer included in analysis							
PLM NYS 198.6 VCM							Not Analyzed
PLM NYS 198.6 NOB							Not Analyzed
TEM NYS 198.4 NOB							Not Analyzed
Sample ID	P0001-BULK27-01-Rough Coa 031606664-0013A		Description	Homogeneity			
			Homogeneity				
PLM NYS 198.1 Friable	3/12/2016		Brown/Gray	2.00% Cellulose	42.00% Non-fibrous (other)	56.00% Quartz	None Detected
PLM NYS 198.6 VCM							Not Analyzed
PLM NYS 198.6 NOB							Not Analyzed
TEM NYS 198.4 NOB							Not Analyzed



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Project ID:

Test Report:Asbestos Analysis of Bulk Material

		Non-Asbestos				
Test	Analyzed Date	Color	Fibrous	Non-Fibrous		Asbestos
Sample ID	P0001-BULK28-01-Skim Coat 031606664-0014	Description	Homogeneous			
		Homogeneity				
PLM NYS 198.1 Friable	3/12/2016	White		48.00% Ca Carbonate 40.81% Non-fibrous (other) 10.00% Quartz		1.19% Chrysotile
PLM NYS 198.6 VCM						Not Analyzed
PLM NYS 198.6 NOB						Not Analyzed
TEM NYS 198.4 NOB						Not Analyzed
Sample ID	P0001-BULK28-01-Rough Coa 031606664-0014A	Description	Homogeneous			
		Homogeneity				
PLM NYS 198.1 Friable	3/12/2016	Brown		40.00% Non-fibrous (other) 60.00% Quartz		None Detected
PLM NYS 198.6 VCM						Not Analyzed
PLM NYS 198.6 NOB						Not Analyzed
TEM NYS 198.4 NOB						Not Analyzed
Sample ID	P0001-BULK29-01 031606664-0015	Description	Heterogeneous			
		Homogeneity				
PLM NYS 198.1 Friable	3/12/2016	White/Green		60.00% Ca Carbonate 38.17% Non-fibrous (other)		1.83% Chrysotile
PLM NYS 198.6 VCM						Not Analyzed
PLM NYS 198.6 NOB						Not Analyzed
TEM NYS 198.4 NOB						Not Analyzed
Sample ID	P0001-BULK30-01-Skim Coat 031606664-0016	Description	Homogeneous			
		Homogeneity				
PLM NYS 198.1 Friable	3/13/2016	White		55.00% Ca Carbonate 43.75% Non-fibrous (other)		1.25% Chrysotile
Inseparable paint / coating layer included in analysis						
PLM NYS 198.6 VCM						Not Analyzed
PLM NYS 198.6 NOB						Not Analyzed
TEM NYS 198.4 NOB						Not Analyzed
Sample ID	P0001-BULK30-01-Rough Coa 031606664-0016A	Description	Homogeneous			
		Homogeneity				
PLM NYS 198.1 Friable	3/13/2016	Gray/White/Various		68.00% Ca Carbonate 30.75% Non-fibrous (other)		1.25% Chrysotile
PLM NYS 198.6 VCM						Not Analyzed
PLM NYS 198.6 NOB						Not Analyzed
TEM NYS 198.4 NOB						Not Analyzed



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Test Report:Asbestos Analysis of Bulk Material

The samples in this report were submitted to EMSL for analysis by Asbestos Analysis of Bulk Materials via NYS ELAP Approved Methods . The reference number for these samples is the EMSL Order ID above . Please use this reference number when calling about these samples.

Report Comments:

Sample Receipt Date: 3/11/2016

Analysis Completed Date: 3/12/2016

Sample Receipt Time: 4:15 PM

Analysis Completed Time: 5:30 PM

Analyst(s):

Emmanuel Moise PLM NYS 198.1 Friable (11)

Samples reviewed and approved by:

Jon Williams PLM NYS 198.1 Friable (19)

James Hall, Laboratory Manager
or Other Approved Signatory

NOB = Non Friable Organically Bound N/A = Not Applicable VCM = Vermiculite Containing Material

-In New York State, TEM is currently the only method that can be used to determine if NOB materials can be considered or treated as non-asbestos containing.

All samples examined for the presence of vermiculite when analyzed via NYS 198.1.

-NYS Guidelines for Vermiculite containing samples are available at http://www.wadsworth.org/labcert/elapcert/forms/VermiculiteInterimGuidance_Rev070913.pdf EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Samples were received in good condition unless otherwise noted.

This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. This report may contain data that is not covered by the NVLAP accreditation .

Samples analyzed by EMSL Analytical, Inc. New York, NY NYS ELAP 11506

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